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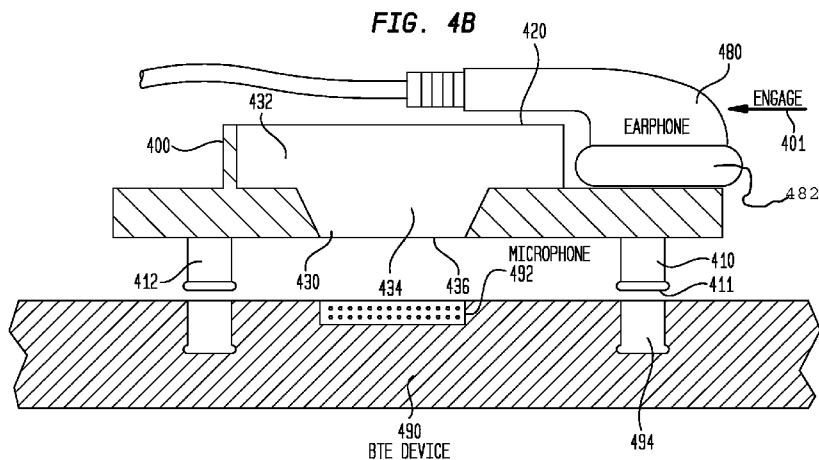
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(54) **Title:** ACOUSTIC COUPLER



(57) **Abstract:** An acoustic coupler for a hearing device. The hearing device including a microphone. The acoustic coupler includes an earphone receptacle formed to releasably engage an earphone therein and a securing feature formed to detachably engage the coupler to the hearing device in proximity to the microphone.

A. CLASSIFICATION OF SUBJECT MATTER**H04R 25/00(2006.01)i, A61F 11/08(2006.01)i**

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

H04R 25/00; H04R 5/00; H04R 25/02; H04R 29/00; H04R 1/10; A61F 11/08

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Korean utility models and applications for utility models

Japanese utility models and applications for utility models

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

eKOMPASS(KIPO internal) & Keywords: acoustic coupler, hearing prosthesis, earphone, BTE, coupling body

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	KR 10-2006-0007196 A (JEONG-SUB JO et al.) 24 January 2006 See abstract, claims 1-2 and figures 1-2.	1-2,6
A		3-5,7-43
Y	US 2005-0259829 A1 (KOEN VAN DEN HEUVEL et al.) 24 November 2005 See abstract, claims 1-7, paragraph [0026] and figures 1-2.	1-2,6
A		3-5,7-43
A	WO 99-13682 A2 (ARNELL/ROSS LTD.) 18 March 1999 See abstract, claims 1-4 and figures 1-4.	1-43
A	KR 10-2011-0065518 A (WIDEX A/S) 15 June 2011 See abstract, claims 1-6 and figures 1-9.	1-43
A	KR 20-0255386 Y1 (HYUNG-SOO LEE) 13 December 2001 See abstract, claims 1, 2 and figures 1-5.	1-43

 Further documents are listed in the continuation of Box C. See patent family annex.

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"P" document published prior to the international filing date but later than the priority date claimed

"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

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"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art

"&" document member of the same patent family


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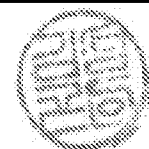

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INTERNATIONAL SEARCH REPORT

Information on patent family members

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Patent document cited in search report	Publication date	Patent family member(s)	Publication date
KR 10-2006-0007196 A	24/01/2006	KR 20-0364252 Y1	19/10/2004
US 2005-0259829 A1	24/11/2005	AU 2005-202243 A1 US 2012-0195437 A1 US 8144884 B2	08/12/2005 02/08/2012 27/03/2012
WO 99-13682 A2	18/03/1999	TW 419908 A WO 99-13682 A3	21/01/2001 06/05/1999
KR 10-2011-0065518 A	15/06/2011	CA 2740006 A1 CN 102742296 A EP 2332343 A1 JP 2011-524703 A WO 2010-040350 A1	15/04/2010 17/10/2012 15/06/2011 01/09/2011 15/04/2010
KR 20-0255386 Y1	13/12/2001	None	